

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

|  |  |  |
|--|--|--|
| Applicant's or agent's file reference<br><b>110/04073</b>      | <b>FOR FURTHER ACTION</b><br>see Form PCT/ISA/220<br>as well as, where applicable, item 5 below. |  |
| International application No.<br><b>PCT/IL2004/000508</b>      | International filing date (day/month/year)<br><b>13/06/2004</b>                                  | (Earliest) Priority Date (day/month/year)<br><b>12/06/2003</b> |
| Applicant<br><br><b>DISC-O-TECH MEDICAL TECHNOLOGIES, LTD.</b> |  |  |

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☒ **Certain claims were found unsearchable** (See Box II).

3. ☒ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 3a

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-9,22-28

Hip plate assembly, comprising one lag screw and a plate body having a removable barrel guide for said lag screw.

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2. claims: 1,10-16

Hip plate assembly comprising a hip plate and a lag screw for insertion through said plate, wherein said lag screw has an expandable head for secure fitting in the femoral head.

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3. claims: 1,17-21

Hip plate assembly comprising a hip plate and a lag screw for insertion through said plate, wherein said screw has means to limit its axial and rotational movement in said plate.

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4. claims: 29-33

Hydraulic apparatus for generic bone implant removal.

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## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/IL2004/000508

### Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: **34-43**  
because they relate to subject matter not required to be searched by this Authority, namely:  
**Rule 39.1(iv) PCT - Method for treatment of the human or animal body by surgery**
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

**see additional sheet**

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  
**1-9, 22-28**

#### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/IL2004/000508

| C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT |  |                              |
|--|--|------------------------------|
| Category *   | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No.        |
| X  | <p>PATENT ABSTRACTS OF JAPAN<br/> vol. 2002, no. 07,<br/> 3 July 2002 (2002-07-03)<br/> &amp; JP 2002 065687 A (HOMUZU GIKEN:KK),<br/> 5 March 2002 (2002-03-05)<br/> abstract; figures<br/> -----</p> | <p>1-3,6,7,<br/> 9,22-28</p> |

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# INTERNATIONAL SEARCH REPORT

International Application No

PCT/IL2004/000508

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 A61B17/74

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|------------|--|-----------------------|
| X          | US 2003/078581 A1 (FREI RETO ET AL)<br>24 April 2003 (2003-04-24)<br>page 2, paragraph 18 - page 3, paragraph 21<br>figures 3-5  | 1-3,<br>22-28         |
| X          | PATENT ABSTRACTS OF JAPAN<br>vol. 0153, no. 88 (C-0872),<br>2 October 1991 (1991-10-02)<br>& JP 3 158150 A (KIJURO HAYANO),<br>8 July 1991 (1991-07-08)<br>abstract; figures | 1-5,7,8,<br>22-28     |
| X          | FR 2 686 788 A (HARDY JEAN MARIE)<br>6 August 1993 (1993-08-06)<br>page 6, line 4 - page 7, line 30<br>figures 1,2   | 1-5,7,9,<br>22-28     |
|            | -----<br>-/-   |                       |

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

16 September 2004

Date of mailing of the international search report

09 FEB 2005

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Compos, F

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IL2004/000508

| Patent document<br>cited in search report |    | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
|---|----|---------------------|----------------------------|---------------------|
| US 2003078581                             | A1 | 24-04-2003          | WO 0176493 A1              | 18-10-2001          |
|   |    |                     | AT 277562 T                | 15-10-2004          |
|   |    |                     | AU 3548400 A               | 23-10-2001          |
|   |    |                     | CA 2444060 A1              | 18-10-2001          |
|   |    |                     | DE 50008036 D1             | 04-11-2004          |
|   |    |                     | DK 1272116 T3              | 13-12-2004          |
|   |    |                     | EP 1272116 A1              | 08-01-2003          |
|   |    |                     | JP 2003531654 T            | 28-10-2003          |
| -----                                     |    |                     |                            |                     |
| JP 3158150                                | A  | 08-07-1991          | JP 1864715 C               | 08-08-1994          |
|   |    |                     | JP 5081254 B               | 12-11-1993          |
| -----                                     |    |                     |                            |                     |
| FR 2686788                                | A  | 06-08-1993          | FR 2686788 A1              | 06-08-1993          |
|   |    |                     | EP 0578807 A1              | 19-01-1994          |
|   |    |                     | WO 9315678 A1              | 19-08-1993          |
|   |    |                     | JP 6509490 T               | 27-10-1994          |
| -----                                     |    |                     |                            |                     |
| JP 2002065687                             | A  | 05-03-2002          | NONE                       |                     |
| -----                                     |    |                     |                            |                     |

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